| Index of Claims  | Application No. |  |
|--|-----------------|--|
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|  | Examiner        |  |
|  | Nasser Ahmad    |  |

| Rejected | _ | (Through numeral)<br>Cancelled |  | N | Non-Elected  | A | Appeal   |
|----------|---|--------------------------------|--|---|--------------|---|----------|
| Allowed  | ÷ | Restricted                     |  | 1 | Interference | o | Objected |

Applicant(s)

Art Unit

1772

DOWNS, JOHN P.

| Cla          | im       | Date     |          |   |  |                  |  |  |          | С        | Claim Date   |        |            |          |          |          |        |        |          | ١               | Cla      | aim      | Date     |            |                 |          |          |                |          |          |          |          |           |
|--------------|----------|----------|----------|---|--|------------------|--|--|----------|----------|--------------|--------|------------|----------|----------|----------|--------|--------|----------|-----------------|----------|----------|----------|------------|-----------------|----------|----------|----------------|----------|----------|----------|----------|-----------|
| <u></u>      |          | _        |          |   |  |                  |  |  |          |          |              | $\neg$ |            |          |          |          |        |        |          |                 |          |          | $\dashv$ |            |                 |          |          |                |          |          |          |          |           |
| -m           | Original | 9/15/04  | 5/15/05  |   | 1  |                  |  |  |          |          | <del> </del> |        | Original   |          |          | İ        | 1      |        |          |                 |          |          | a        | Original   |                 |          |          |                |          |          |          |          |           |
| Final        | igi      | 15/      | 15/      |   |  |                  |  |  |          |          | Final        |        | <u>ق</u> ا |          |          |          | 1      | 1      |          |                 |          |          | Final    | rigi       |                 |          |          |                |          |          |          | ı        |           |
|              | ō        | 6        | 5        |   |  |                  |  |  |          |          | "            | (      | う          |          |          |          | 1      | 1      |          |                 |          |          | _        | 0          |                 |          |          |                |          |          |          | ı        |           |
|              | 1        | _        | v        |   |  | ⊢                | $\vdash$   | $\vdash$   |          | $\dashv$ | $\vdash$     | +-     | 51         |          | +        | +        | +      | ╁      | +        | -               | -        | ŀ        |          | 101        | $\vdash$        |          |          |                | _        |          | $\dashv$ | $\dashv$ | -         |
|              | 2        | _        | · ·      |   | ┢  | -                | $\vdash$   | ⊢  |          | -        |              |        | 52         | -        | +        | +        | ╁      | +      | $\vdash$ |                 | _        | ŀ        |          | 102        | $\vdash$        | $\dashv$ |          | -              | ┪        | -        | $\dashv$ | $\dashv$ | $\dashv$  |
|              | 3        | ٧        | -        |   | -  | ⊢                | ⊢  | ┢  | $\vdash$ | $\dashv$ | _            |        | 3          | -        | +        | - -      | ╁      | +-     | +        |                 | -        | - }      |          | 103        | $\vdash$        | $\dashv$ |          | _              | $\dashv$ | -        | -        |          | $\dashv$  |
| <b>_</b>     | 4        | ٧        | V        |   | ├  | ⊢                | ⊢  | ├  |          | -        | -            |        | 54         | $\dashv$ | +        |          | ╅      | ╁      | +-       | H               | 긕        | ŀ        |          | 103        | -               | $\dashv$ | $\dashv$ |                | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$  |
|              | 5        | ٧        | ٧        |   | ⊢  | ⊢                | ├  | -  |          | _        | -            |        | 55         | +        | +        |          | +-     | ╁      | -        | $\dashv$        | $\dashv$ | ŀ        |          | 105        |                 | -        |          |                | -        | _        | $\dashv$ | $\dashv$ | $\dashv$  |
| <u> </u>     | 6        | <u>v</u> | v        | _ | ⊢  | H                | $\vdash$   | $\vdash$   |          |          |              |        | 56         |          | +        | ╬        | +      | ╁      | $\vdash$ | $\vdash$        |          | ŀ        |          | 106        | $\vdash$        | $\dashv$ | $\dashv$ | _              | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$  |
| <u> </u>     | 7        | <u>v</u> | v        |   | -  | ⊢                | H  | ┢  |          | $\dashv$ | -            |        | 57         | -        | ╬        |          | +      | +      | +        | $\dashv$        | -        | ŀ        |          | 107        | $\vdash$        | $\dashv$ | -        | _              | $\dashv$ | $\dashv$ | $\dashv$ |          |           |
| <del> </del> | 8        | ٧        | ٧        | _ | <del>  -</del>                                   |                  | -  | ┝  |          | -        | -            |        | 58         | +        | -        | ┿        | ╁      | +-     | $\vdash$ | $\dashv$        | $\dashv$ | H        |          | 108        | -               | $\dashv$ |          |                | -        |          |          | $\dashv$ | $\dashv$  |
| <b></b>      | 9        | ٧        | -        |   | $\vdash$   | ⊢                | ⊢  | $\vdash$   |          | -        | -            |        | 9          |          | +        | +        | ╁      | ╁      | $\vdash$ | $\dashv$        | _        | ŀ        |          | 109        | $\vdash$        | -        | -        |                | -        |          | -        | $\dashv$ | $\dashv$  |
| <b></b>      |          | V        | ٧        |   |  |                  | -  |  | $\vdash$ | $\dashv$ | -            |        |            | +        | +        |          |        | +-     | $\vdash$ | $\dashv$        | -        | }        |          | 110        | $\vdash$        | $\dashv$ | $\dashv$ | -              | $\dashv$ |          |          |          | -         |
| <u> </u>     | 10       | ٧_       | ٧        |   | <del> </del> —                                   | <del> </del>     | -  | -  | $\vdash$ | $\dashv$ | -            |        | 30         | +        | +        | $\dashv$ | - -    | -      | $\vdash$ | $\vdash$        | $\dashv$ | }        |          | 111        | $\vdash$        | $\dashv$ | $\dashv$ | $\vdash$       |          |          | $\dashv$ |          | $\dashv$  |
| <del> </del> | 11       | ٧        | v        |   | $\vdash$   | $\vdash$         |  | $\vdash$   |          |          |              |        | 31         | +        | +        | +        | +      | +      | -        |                 | $\dashv$ | - }      |          | 1112       | $\vdash$        | -        |          |                | _        | =        | $\dashv$ |          | $\dashv$  |
| <u> </u>     | 12       | ٧        | V        |   | $\vdash$   | $\vdash$         | $\vdash$   | $\vdash$   |          |          |              |        | 2          | +        | +        | +        | +      | +-     | -        | $\vdash$        | $\dashv$ | }        |          | 113        | $\vdash \dashv$ |          | _        |                | -        | =        | $\dashv$ | -        |           |
| <u> </u>     | 13       | ٧        | ٧        |   | -  | -                |  | $\vdash$   |          | $\dashv$ | -            |        | 33         | +        | +        | +        | +      | +      | $\vdash$ | H               |          | }        |          |            | $\vdash$        | $\dashv$ | -        |                |          |          | $\dashv$ | $\dashv$ | $\dashv$  |
| <u> </u>     | 14       | ٧        | V        |   | <del> </del> —                                   | <del> </del>     | -  | ├  | $\vdash$ | $\dashv$ | -            |        | 64<br>65   | +        | +        | +        |        | +      | +-       |                 | $\dashv$ | }        |          | 114<br>115 | $\vdash$        | $\dashv$ |          |                | _        |          |          | -        |           |
| $\vdash$     | 15       | <u>v</u> | ٧        | _ | <del> </del>                                     | <del> </del>     |  | ├  |          | $\dashv$ | -            |        | 66         | +        | +        | +        |        | +      | $\vdash$ | $\vdash \vdash$ | $\dashv$ | ŀ        |          | 116        | $\dashv$        | $\dashv$ |          |                | -        | $\dashv$ | $\dashv$ | $\dashv$ |           |
| <u> </u>     | 16<br>17 | v        | ٧        |   | <del> </del> —                                   | -                | $\vdash$   | <del>L</del>                                     | $\vdash$ | $\dashv$ | -            |        | 37         | +        |          | +        | ┵      | +      | +        | $\vdash$        | $\dashv$ | - }      |          | 117        | -               | $\dashv$ | -        | $\dashv$       |          |          | $\dashv$ | $\dashv$ | $\dashv$  |
|              | 18       | ٧        |          |   | ⊢  | $\vdash$         | ⊢  | ┢  | -        | $\dashv$ |              |        | 88         | +        | +        | ╬        | +      | +-     | ┼-       | $\dashv$        |          | - }      |          | 118        |                 | $\dashv$ | $\dashv$ | -              | $\dashv$ | $\dashv$ | $\dashv$ |          | _         |
| ļ            |          | ٧        | ٧        |   | ┝  |                  | ⊢  | ┢  |          | -        | -            |        |            | +        | +        | +        | -      | -      | ┼        | $\dashv$        |          | - }      |          | 119        |                 | -        | _        | $\dashv$       |          |          | $\vdash$ |          | -         |
| <u> </u>     | 19       | ٧        | ٧        |   | ļ  | ┢                | ┝  | ┢  |          | -        |              |        | 39<br>70   |          | +        | +        | +      | +      | $\vdash$ | $\vdash$        |          | - }      |          | 120        | $\vdash$        | -        |          |                |          |          | $\dashv$ | -        | _         |
| <u> </u>     | 20       | ٧        | ٧        |   | ⊢  | ⊢                |  | ⊢  |          | $\dashv$ |              |        | 71         |          | +        | +        | +      | +      | ┼        | $\vdash$        | -        | - }      |          | 121        |                 | -        |          | $\dashv$       |          | $\dashv$ | $\dashv$ | $\dashv$ |           |
| <u> </u>     | 21       | <u> </u> | ٧.       |   | -  | -                | ⊢  | ⊢  | $\vdash$ | 4        | -            |        |            | - -      | ╬        | +        | +-     | +      | $\vdash$ | $\dashv$        | _        | - }      |          | 122        | $\dashv$        | $\dashv$ | _        | $\dashv$       |          |          |          |          | _         |
| <u> </u>     | 22       | ٧        | v        |   | <del> </del> —                                   |                  | -  | <u> </u>   | -        | _        | -            |        | 72         |          | +        |          |        | -      | $\vdash$ | $\dashv$        | $\dashv$ | - }      |          | 123        | $\dashv$        | $\dashv$ |          |                | -        |          | $\dashv$ | -        |           |
|              | 23       |          |          |   | ⊢  | ⊢                | ⊢  | $\vdash$   | -        | $\dashv$ |              |        |            | -        | +        | +        | +      | +      | $\vdash$ | $\dashv$        | -        | - }      |          | 124        |                 | _        |          |                | -        |          | -        | $\dashv$ | _         |
|              | 24<br>25 | _        |          |   | $\vdash$   | ⊢                | $\vdash$   | $\vdash$   | -        | $\dashv$ |              |        | 74  <br>75 | +        | +        | +        | +      | +      | +        | -               |          | -        |          | 125        | $\vdash$        | $\dashv$ |          | -              |          | $\dashv$ | $\dashv$ | $\dashv$ | _         |
|              | 26       | <u> </u> |          |   | ⊢  | -                | ⊢  | <u> </u>   |          |          | -            |        | 6          | +        | +        | +        | ╁      |        |          | -               | -        | -        |          | 126        | $\vdash$        | -        |          | -              | -        | $\dashv$ | $\dashv$ |          | $\dashv$  |
|              | 27       |          |          |   | -  | $\vdash$         | ⊢  | ┝  |          | -        | -            |        | 77         |          | +        |          | +      | +      | $\vdash$ |                 | $\dashv$ | ŀ        |          | 127        | $\dashv$        | $\dashv$ | -        |                | -        | -        | $\dashv$ | $\dashv$ | $\dashv$  |
| -            | 28       |          |          |   |  | -                |  | <del> </del>                                     |          | -        | <u> </u>     |        | 8          |          | -        | +        | +      | +      | $\vdash$ | -               |          | ŀ        |          | 128        | $\dashv$        | -        |          | -              |          |          | -        |          |           |
|              | 29       |          |          |   | ⊢  |                  | $\vdash$   | ├  | $\vdash$ | $\dashv$ | -            |        | 9          | -+-      | +        |          | +      | +-     | +        |                 |          | ŀ        |          | 129        |                 | $\dashv$ |          |                |          |          | -        | -        | -         |
| <b></b>      | 30       | $\vdash$ | -        | _ | ├  | -                | $\vdash$   | <del>                                     </del> |          | -        | -            |        | 30         |          | +        |          | +      | ╁      | +        | $\vdash$        | ⊣        | ŀ        |          | 130        |                 | $\dashv$ | -        |                |          | $\dashv$ | -        |          | _         |
| <b></b>      | 31       | _        | -        |   | -  | ┝                | ┢  | ┢  | $\vdash$ | -        | -            |        | 31         |          | +        | +        | +      | +      | $\vdash$ |                 | $\dashv$ | ŀ        |          | 131        | -1              | $\dashv$ |          |                |          |          | $\dashv$ | ᅱ        |           |
|              | 32       | -        | Н        |   | -  | ⊢                | -  | ├  | $\vdash$ |          | -            |        | 32         | +        | +        | +        | +      | +      | -        | -               | $\dashv$ | ŀ        |          | 132        |                 | $\dashv$ |          |                | $\dashv$ | =        | $\dashv$ | $\dashv$ | -         |
| <u> </u>     | 33       |          | $\vdash$ |   | -  | <del> </del>     | -  | ├─   | $\vdash$ | $\dashv$ | -            |        | 33         | +        | +        | +        | +      | +-     | +        |                 | -        | ŀ        |          | 133        | $\dashv$        | $\dashv$ |          |                | $\dashv$ |          |          |          | —         |
| <u> </u>     | 34       |          | Н        |   | $\vdash$   | $\vdash$         | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ | -            |        | 34         | +        | +        | +        | +      | +      | $\vdash$ | $\vdash$        | $\dashv$ | }        |          | 134        | -               | $\dashv$ | $\dashv$ | $\dashv$       |          | $\dashv$ | $\dashv$ |          | $\dashv$  |
| $\vdash$     | 35       | -        | $\vdash$ |   | $\vdash$   | ├                | ├  | ├  |          | $\dashv$ | $\vdash$     |        | 35         | +        | +        | ┿        | +      | ╁      | $\vdash$ |                 | $\dashv$ | - }      |          | 135        |                 | $\dashv$ |          |                |          | $\dashv$ | $\dashv$ |          | -         |
| <u> </u>     | 36       | $\vdash$ | $\vdash$ | _ | $\vdash$   | ├                | $\vdash$   | ├  |          | $\dashv$ | $\vdash$     |        | 36         | +        | +        | ┽        | +      | +      | +        | $\vdash$        | $\dashv$ | - }      |          | 136        | $\dashv$        | -        | $\dashv$ |                |          | $\dashv$ | -        | $\dashv$ | $\dashv$  |
| <u> </u>     | 37       |          | $\vdash$ | _ | ⊢  | $\vdash$         | ├  | <del> </del>                                     | H        | $\dashv$ | $\vdash$     |        | 37         | +        | +-       | +        | +-     | ╁      | +        | $\vdash$        | $\dashv$ | - }      |          | 137        | $\dashv$        | -        | $\dashv$ | -              | -        |          | $\dashv$ | $\dashv$ | $\dashv$  |
|              | 38       |          | $\vdash$ |   | $\vdash$   | $\vdash$         | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ | -            |        | 8          | +        | +        | +        | +      | +      | $\vdash$ | $\vdash$        |          | ŀ        |          | 138        | $\vdash$        | +        |          |                |          |          | -        | $\dashv$ | -         |
| <b></b>      | 39       |          | $\vdash$ |   | $\vdash$   | ┢                | ╁  | H  | $\vdash$ |          | -            |        | 39         | +        | +        | +        | +      | +      | $\vdash$ | $\vdash$        |          | - }      |          | 139        | $\dashv$        | -        | $\dashv$ |                | _        | $\dashv$ | -+       | -        | $\dashv$  |
|              | 40       | -        | $\vdash$ |   | -  | <del>  -  </del> | -  | <del>  -  </del>                                 | ┝        |          | -            |        | 90         | +        | +        | +        | +      | +      | $\vdash$ | $\vdash$        |          | - }      |          | 140        | $\vdash$        | $\dashv$ |          |                |          |          | -        | $\dashv$ | $\dashv$  |
| <b>-</b>     | 41       | -        | $\vdash$ |   | $\vdash$   | $\vdash$         | $\vdash$   | <del> </del>                                     | H        | $\dashv$ | -            |        | 1          | - -      | +        | +        | +      | +-     | $\vdash$ | $\vdash$        | $\dashv$ | - }      |          | 141        | $\vdash$        | -        | $\dashv$ | -              | _        | $\dashv$ | -        | $\dashv$ | $\dashv$  |
|              | 42       |          | $\vdash$ |   |  | <del>  -</del>   | -  | <del> </del>                                     | $\vdash$ | $\dashv$ | -            | +      | 2          | +        | +        | +        | +      | +      | $\vdash$ | $\vdash$        | $\dashv$ | - 1      |          | 142        |                 | -        |          |                |          |          | $\dashv$ | $\dashv$ | $\dashv$  |
| <b></b>      | 43       | $\vdash$ | $\vdash$ | _ | $\vdash$   | $\vdash$         | <del>                                     </del> | $\vdash$   | -        | $\dashv$ |              |        | 3          | +        | +        | +        | +      | +      | +-       | $\vdash \vdash$ | $\dashv$ | <u> </u> |          | 143        | $\vdash$        | $\dashv$ | $\neg$   | $\neg$         |          | $\dashv$ | $\dashv$ |          | $\dashv$  |
|              | 44       |          | Н        |   | $\vdash$   | $\vdash$         | $\vdash$   | H  | H        | $\dashv$ | -            | +      | 94         | ╁        | $\dashv$ | +        | +      | +      | $\vdash$ | $\vdash$        | $\dashv$ | ŀ        |          | 144        | $\dashv$        | $\dashv$ | $\neg$   | -              |          | $\neg$   |          | $\dashv$ | $\dashv$  |
|              | 45       | _        | H        |   |  |                  | 1  | Н  | H        | ⇥        | -            |        | 5          | +        | +        | +        | +      | $\top$ |          | $\vdash$        | $\dashv$ | -        |          | 145        | $\dashv$        | -        | -        |                | -        |          | $\dashv$ | $\dashv$ | $\neg$    |
| -            | 46       | -        | $\vdash$ | _ | <del>                                     </del> | $\vdash$         | t  | $\vdash$   | $\vdash$ | $\dashv$ | _            |        | 6          | +        | +        | +        | +      | +-     | 1        |                 | ᅥ        | ŀ        |          | 146        |                 | +        |          |                |          | $\dashv$ | $\dashv$ |          | $\dashv$  |
|              | 47       |          | Н        | _ |  | $\vdash$         |  | $\vdash$   | -        | $\dashv$ |              | 1      | 77         | 十        | 十        | +        | +      | +      |          |                 | $\dashv$ | ŀ        |          | 147        |                 | _        | $\neg$   |                |          |          |          | _        | $\dashv$  |
|              | 48       |          | $\vdash$ | _ | $\vdash$   | $\vdash$         | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ |              |        | 8          | +        | +        | $\top$   | +      | $\top$ | T        |                 | $\dashv$ | ŀ        |          | 148        | $\vdash$        | $\dashv$ |          |                | _        |          | 7        | $\dashv$ | $\neg$    |
|              | 49       |          | $\vdash$ | _ | $\vdash$   | $\vdash$         | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ |              | 7      | 9          | $\top$   | $\top$   | $\top$   | $\top$ | $\top$ | П        | $\dashv$        | $\dashv$ | t        | -        | 149        |                 | $\dashv$ | $\neg$   | $\neg \dagger$ | $\neg$   |          | $\dashv$ | 一        | $\dashv$  |
|              | 50       |          | Н        |   | <del>                                     </del> |                  |  |  | $\vdash$ | $\neg$   |              | 1      | 00         | $\dashv$ | +        | $\top$   | $\top$ | $\top$ | $\Box$   | $\exists$       | $\dashv$ | ł        |          | 150        | $\neg$          | 一        |          | _              | $\neg$   | $\neg$   |          | _        | $\exists$ |
|              |          |          |          |   | Ц.   | Щ.               | Ц.   |  | لب       |          | <u> </u>     |        |            |          |          | L_       | ㅗ      |        | L        |                 |          | Ļ        |          |            |                 | 1        |          |                |          |          |          |          |           |